

**International
Science Council**

The global voice for science



International Science Council

The Global Voice for Science



01 Essentials

Understand the ISC, its history, membership, vision and mission

02 Core and ongoing activities

Overview of our core and ongoing activities, including our convening role as the global voice for science

03 Priorities

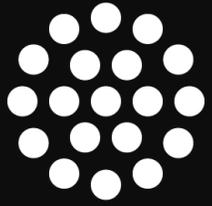
An indication of the priority issues we are currently working on from the 2019 - 2021 Action Plan

04 Opportunities

Collaborate with us

Essentials





International Science Council

The global voice for science

- Global membership-based organization
- Founded in July 2018
- Merger of the International Council for Science and the International Social Science Council



The vision of the Council
is to advance science as
a **global public good**

The mission of the Council
is to be the **global
voice for science**

Our Members include

- **130** National and Regional Scientific Organizations, including academies and research councils
- **40** International Scientific Unions and Associations across the natural and social sciences
- **40** International Affiliates, including organizations like The World Academy of Sciences, the International Institute for Applied Systems Analysis, the Global Young Academy

**We maintain active
partnerships with:**

Other international scientific bodies, including
the InterAcademy Partnership, the World
Federation of Engineering Organizations and
the Global Research Council

Governing Board

6 Officers

President

President-elect

Vice-President

Vice-President

Secretary

Treasurer

10 Ordinary members

1 Ex-officio



Daya Reddy

President, South Africa



Peter Gluckman

President-elect, New Zealand



Alik Ismail-Zadeh

Secretary, Germany



Elisa Reis

Vice-President, Brazil



Jinghai Li

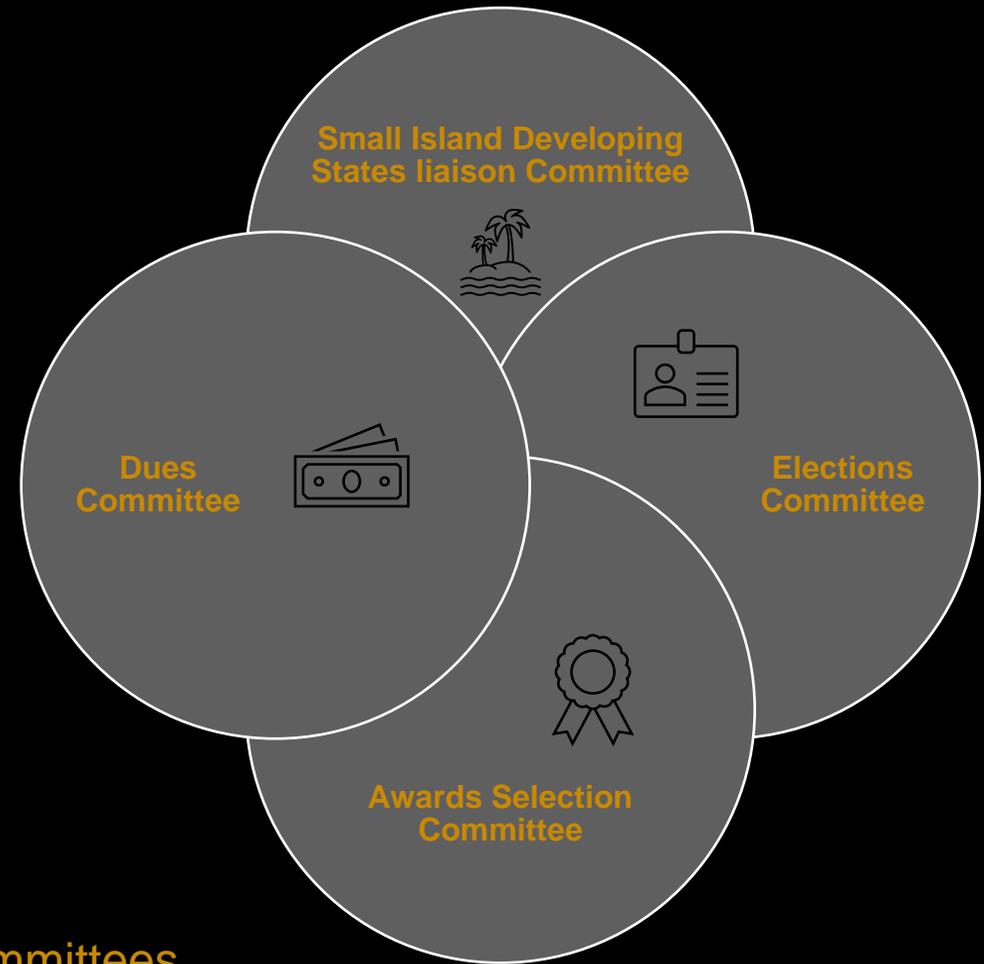
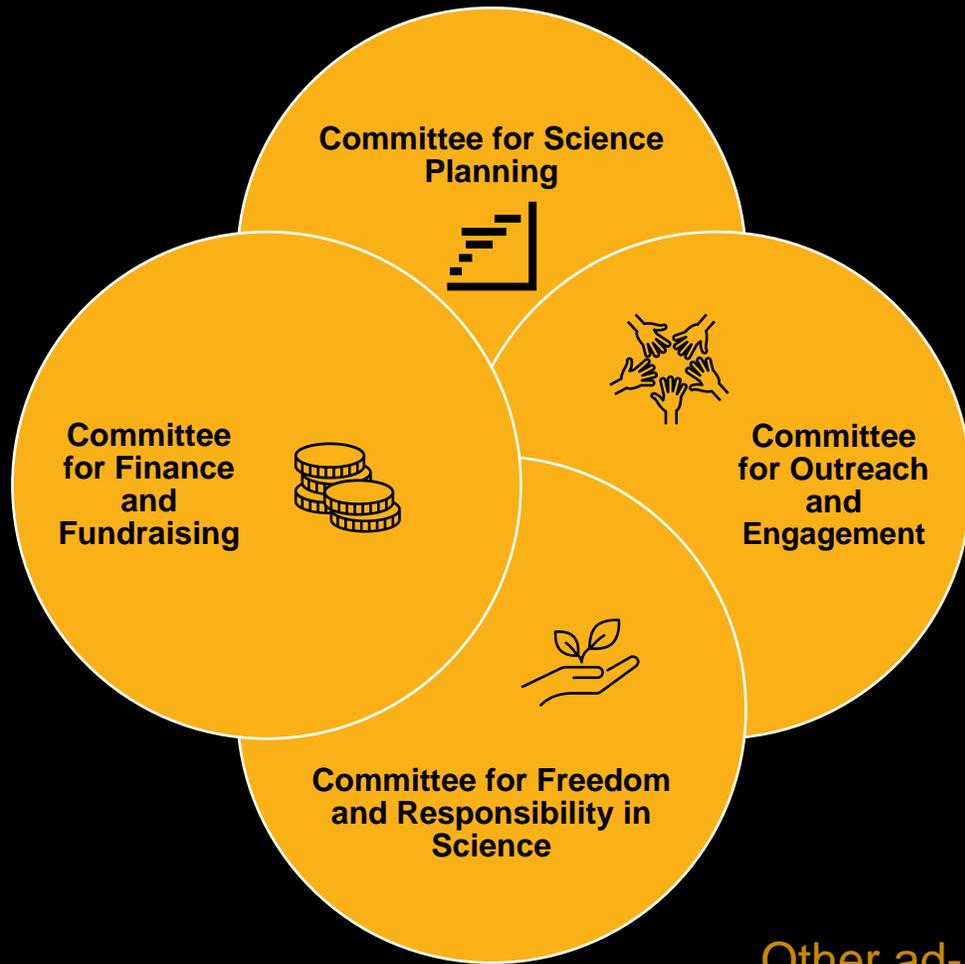
Vice-President, China



Renée van Kessel

Treasurer, Netherlands

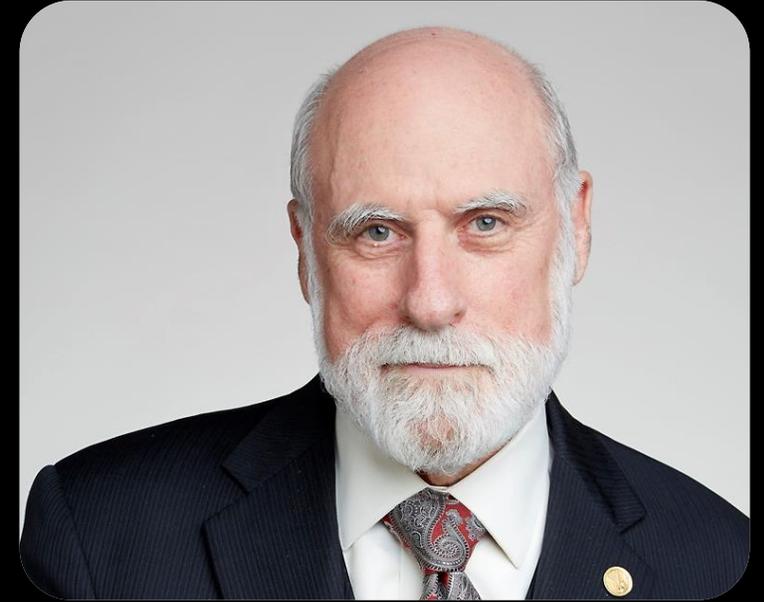
Advisory Bodies



Other ad-hoc committees

Patrons

Mary Robinson, Ismail Serageldin, Vint Cerf



“

We need science to empower citizens’ active engagement in finding the solutions to the climate emergency, especially from poor and vulnerable communities. There has never been a more important time for an organization with the global reach of the International Science Council, and I am delighted to be its Patron”.

Mary Robinson

”

The ISC convenes expertise and influence across scientific fields, disciplines, regions and stakeholder communities in order to



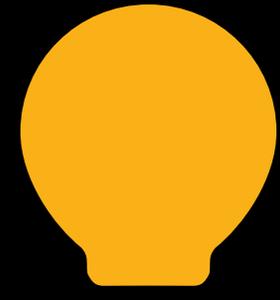
Promote international, integrated research on key global challenges



Increase evidence-informed understanding and decision making at all levels of public policy, discourse and action



Support the continued and equal development of science systems in all parts of the world



Protect scientific freedom and advocate principles for the responsible practice of science

Core and ongoing activities



ISC sponsored and affiliated international scientific bodies

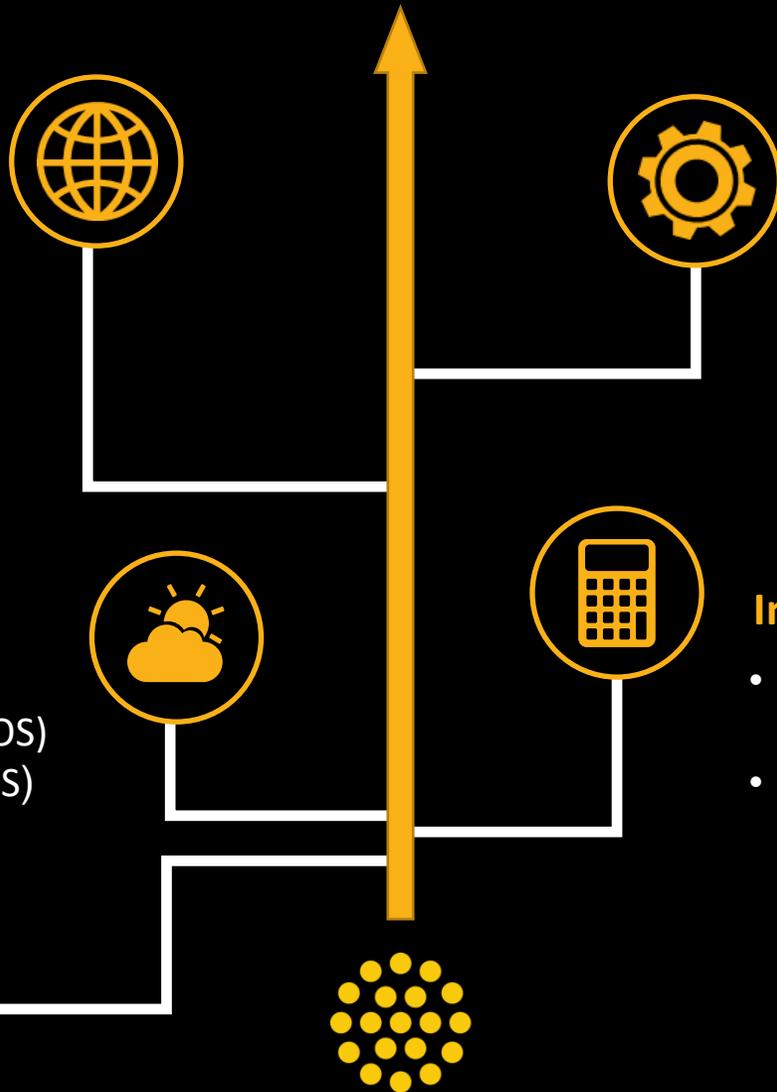
International Research Programmes

- Future Earth
- Climate Research Programme (WCRP)
- Integrated Research on Disaster Risk Programme (IRDR)
- Urban Health and Wellbeing Programme (UHWB)
- Comparative Research on Inequality (CROP)

Global Observing Systems

- Global Climate Observing System (GCOS)
- Global Ocean Observing System (GOOS)

The International Network for Government Science Advice (INGSA)



International Scientific Committees

- Antarctic Research (SCAR)
- Frequencies for Radio Astronomy and Space Science (IUCAF)
- Oceanic Research (SCOR)
- Space Research (COSPAR)
- Solar Terrestrial Physics (SCOSTEP)

International Data Bodies

- Committee on Data for Science and Technology (CODATA)
- World Data System (WDS)

International research funding programmes

Transformations to Sustainability (T2S)

Supported by the Swedish International Development Cooperation Agency (Sida), the Belmont Forum of global environmental change funders and Norface, a network of social science funding agencies



Leading Integrated Research for Agenda 2030 in Africa (LIRA2030)

Supported by Sida and the Bosch Foundation



The ISC leads on interfacing at the UN

The ISC is a lead coordinator of the UN Major Group for Science and Technology. In this role the Council works with the World Federation of Engineering Organizations (WFEO) to secure a mandate for science at the UN.

UNDESA

The ISC represents the international scientific community in the annual High Level Political Forum on the Sustainable Development Goals



UNESCO

The ISC a key partner for UNESCO on Open Science, and The Ocean Decade through the Intergovernmental Oceanographic Commission

UNDP

Phase One of Rethinking Human Development has just been completed, a major achievement in including the natural environment in future human development reports



UNEP

We collaborate with UNEP in the context of co-sponsoring the international sustainability research programme, Future Earth

UNDRR

The Council, working with its members has produced a comprehensive Hazard Definition & Classification Review: Technical Review



WMO

WMO is one of our partners in the World Climate Research Programme





Engaging in Global Policy Processes

Representing science in major global policy processes, focusing on the post-2015 development agenda, including the

- 2030 Agenda for Sustainable Development
- Sendai Framework for Disaster Risk Reduction (UNDRR)
- Convention on Biological Diversity (CBD)
- Paris Agreement on Climate Change (UNFCCC)
- New Urban Agenda (UN-Habitat)

UN Scientific and Technological Community Major Group

The ISC, together with the World Federation of Engineering Organizations (WFEO), is a co-organizing partner of the Scientific and Technological Community Major Group at the United Nations. In this role, we secure a mandate for science at the UN and integrate science in major global policy processes, such as the implementation and monitoring of the 2030 Agenda.



@ScienceTechUN

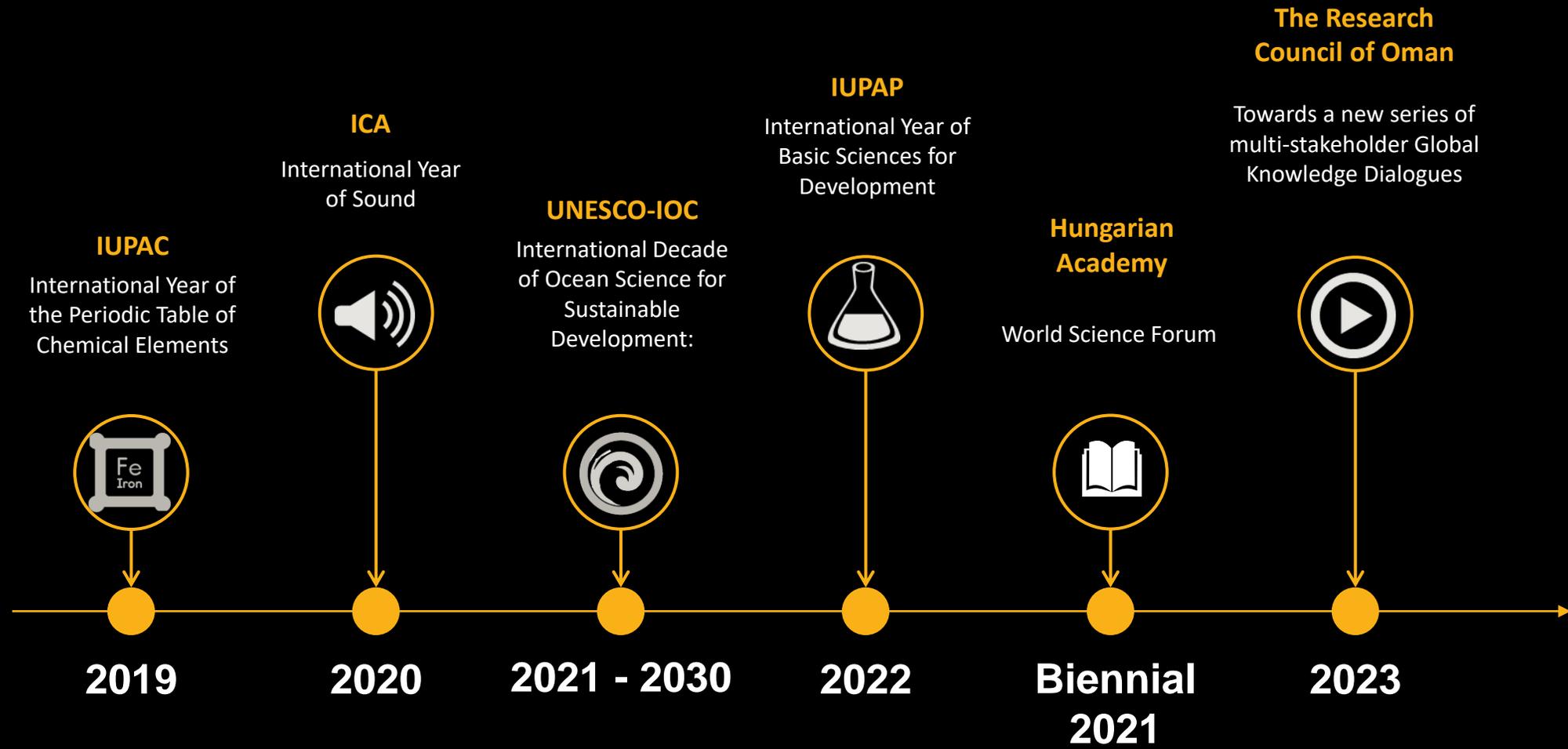
Scientific and Technological Community Major Group position paper on the theme of the 2020 High-level Political Forum

*Accelerated action and transformative
pathways: realizing the decade of action and
delivery for sustainable development*

May 2020



Supporting International Scientific Initiatives



Priorities



ISC Action Plan



LIVE POLL

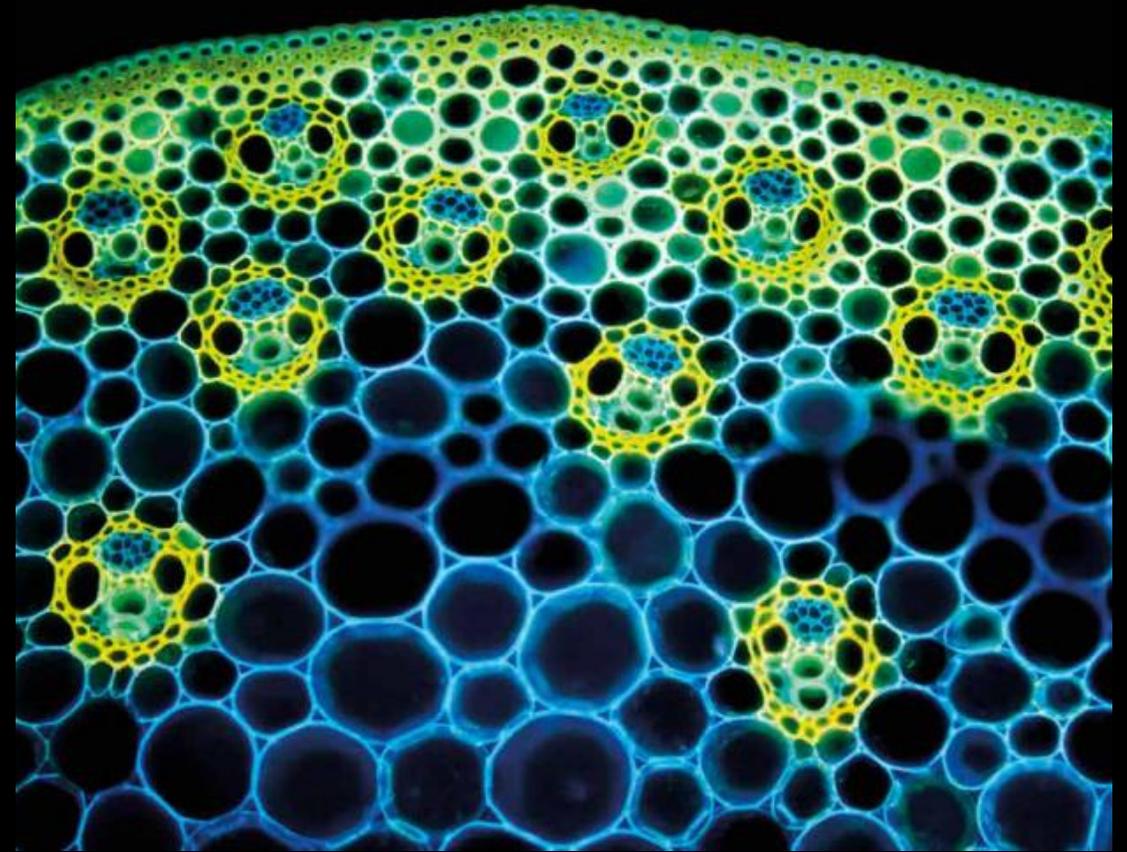
The ISC works with its members, partners and sponsored initiatives on a set of targeted, priority projects, which are subject to three-yearly Action Plan.

Our current Action Plan sets out an agenda for transformative action across four domains of impact.

1. The 2030 Agenda for Sustainable Development
2. The Digital Revolution
3. Science in Policy and Public Action
4. The Evolution of Science and Science Systems

ADVANCING SCIENCE AS A GLOBAL PUBLIC GOOD

ACTION PLAN 2019 – 2021



The ISC Action Plan 2019 - 2021



An improved understanding of the globally coupled natural, physical and social systems of our planet, and the identification of tractable pathways for sustainable and equitable development, are major and urgent tasks.

Global society is in the throes of a digital revolution that has transformed the way in which information and knowledge are acquired, stored, communicated and used.

Science creates knowledge tested against reality, an essential contribution to public discourse and to policy-making at every level of governance, and one that has never been more urgent.

Scientific procedures, organizations and scientists must continually adapt to changes in knowledge, technologies and societal norms. Science systems must be open, agile, and should adjust to safeguard scientific freedom and advance scientific responsibility, rigour and relevance.

An aerial photograph of terraced rice fields in a lush green landscape. The terraces are arranged in a winding, zig-zag pattern across a hillside, with some fields filled with water. The surrounding area is covered in dense tropical vegetation, including palm trees and other green plants. The overall scene is vibrant and shows a harmonious blend of agriculture and nature.

ONE

THE 2030 AGENDA FOR SUSTAINABLE DEVELOPMENT

- In light of lessons being learnt from COVID-19, what transformations are now within reach in key sustainability sectors like energy and food, but also with regard to issues of global governance and multilateralism? And what about the climate emergency?
- The human development approach was conceived by Amartya Sen and others 30 years ago. What does human development mean in today's global context, and how would we go about measuring it?
- In a global landscape of rapidly cascading and complex risks, how do we define hazards and, by implication, how do we effectively monitor and respond to them?



TWO

THE DIGITAL REVOLUTION

- How do the tools of the digital revolution – of big data, linked data, Artificial Intelligence and machine learning – fuel scientific discovery, advance our ability to understanding complex social phenomena?
- How can processes of digitalization help us to speed and scale up on making progress in the achievement of sustainable development goals by 2030? How can we use new digital technologies to support more effective political decision making and investments, particularly in a rapidly cascading and complex global risk landscape?
- How do we ensure that science is exploiting the digital revolution to best effect, and in the absence of a global data governance regime, how do we avoid trends towards the privatization of knowledge?



THREE

SCIENCE IN POLICY AND PUBLIC DISCOURSE

- What do we mean by science as a global public good? How do we ensure that science is practiced as an open, public enterprise?
- How does science engage more effectively with policy and wider publics; how do we support scientists to engage more effectively with decision makers from policy, business and civil society and how would such engagement support the production of knowledge that is both rigorous and relevant, credible and legitimate?
- In light of growing threats to the perceived need for science (and at a time when science is needed more than ever), how do we counteract the pandemic of mis and disinformation being driven by the ubiquity of today's information and communication technologies? How do we advance the public understanding and appreciation of science, secure levels of public trust in science?
- How should scientists behave in emergency situations; what would a related code of conduct include?

FOUR

THE EVOLUTION OF SCIENCE AND SCIENCE SYSTEMS

- How do we secure impactful international scientific collaboration in a global context of resurgent nationalism?
- What does scientific freedom mean in today's world, how do we safeguard it and what responsibilities come with it?
- How inclusive and diverse – and equitable – is the global scientific endeavour? What do we do about persistent global knowledge divides and systemic discrimination in science? How do we support refugee and displaced scientists?
- How do we ensure global public access to the record of science – publications and data – in the context of a flawed business model for scientific and scholarly publishing
- How do we enable science that responds to societal demands and delivers global public goods when scientists continue to be evaluated, rewarded and incentivized in ways that foster a culture of academic competition?

Action Plan Projects

Domain 1: The 2030 Agenda for Sustainable Development



International science
for global
sustainability



SDG interactions as
a national policy
driver



Science and the
Sendai Framework
for Disaster Risk
Reduction

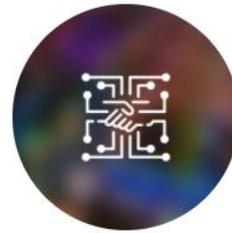


Rethinking Human
Development

Domain 2: The Digital Revolution



Making data work
for cross-domain
grand challenges



Global Digital
Charter and UN
Summit

Domain 3: Science in Policy and Public Discourse



Science-policy
interfaces at the
global level

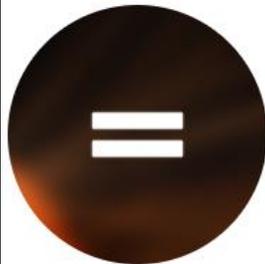


The public value of
science

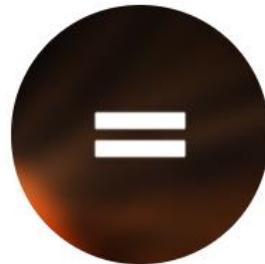


Science in the
private sector

Domain 4: The Evolution of Science and Science Systems



Gender equality in
science



Combating
discrimination



Refugee and
displaced scientists



Open science



The future of
scientific publishing

HAZARD DEFINITION & CLASSIFICATION REVIEW

TECHNICAL REPORT




SENDAI FRAMEWORK
FOR DISASTER RISK REDUCTION 2015-2030


International
Science Council
The global voice for science


UNDRR
UN Office for Disaster Risk Reduction

Science and the Sendai Framework for Disaster Risk Reduction

Domain 1

- Collaboration with members, Public Health England, Integrated Research for Disaster Risk, UNDRR
- Aim: Accelerate implementation of the 2030 Agenda through support for interactions-based research and policy prioritization, programming at all levels of governance
- Launch of a new scientific report on hazards definition in July 2020 with six targeted recommendations



Global Forum of Funders

Domain 1

- Foster strategic partnerships (national research funding agencies, philanthropic foundations, development aid agencies)
- Increase and accelerate impact of science and science funding on the achievement of the 2030 Agenda for Sustainable Development
- In 2021: mobilization of global scientific community to shape a priority action agenda for science
- GFF convened in 2019 and 2021

Conversations on Rethinking Human Development

Rethinking Human Development

Domain 1

- 30 years since the first Human Development Report
- ISC-UNDP partnership
- Input from numerous experts and practitioners from natural and social sciences
- Multi-media website
- Continued global dialogue

A global dialogue on human
development in today's world



The Public Value of Science

Domain 3

Global Science TV

- Convening internationally renowned scientific experts presenting thought-provoking discussions on pressing issues of our times
- Framing issues, explaining complexity and proposing possible options for complex and popularly held ideas

BBC StoryWorks Partnership

- Increase awareness amongst wider publics, policymakers and decision-makers of science as a global public good
- Impactful, solutions-oriented science stories that activate emotions, whilst fortifying levels of public trust in science



Open Science, Scientific Publishing



The cover features a background image of a bookshelf with books of various colors. A red banner is overlaid on the bottom half of the image.

Open Science for the 21st Century

Draft ISC Working Paper
June 2020

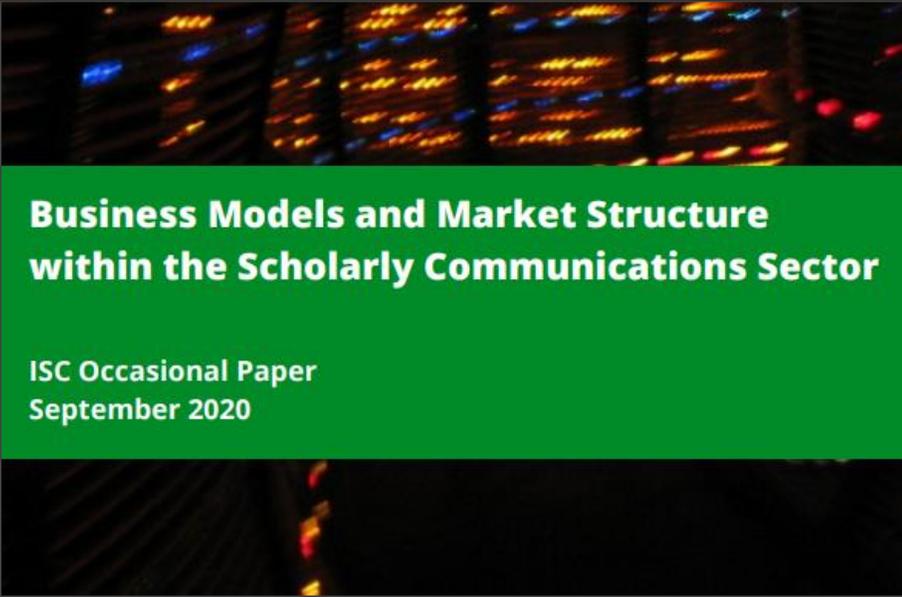
Domain 4

Open Science

- Advocating and advancing open science are fundamental to the work of achieving the ISC's vision of science as a global public good
1. Open Science in the Global South
 2. Towards a UNESCO open science recommendation

The Future of Scientific Publishing

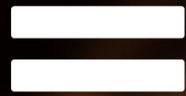
- review of the role of publishing in the scientific enterprise
- Consultation process with members, discussion paper
- Create an international coalition for change
- Position paper



The cover features a background image of server racks with glowing lights. A green banner is overlaid on the bottom half of the image.

Business Models and Market Structure within the Scholarly Communications Sector

ISC Occasional Paper
September 2020



**Gender equality
in science**

Systemic Discrimination in Science

Domain 4

Gender Equality in Science

- Consultation process with all members, report
- Partnership meeting aimed at designing future activities

Combating Discrimination

- ISC statement on combating systemic racism and discrimination in science
- ISC-Falling Walls collaboration
- Partnership agreement with ten other global science organizations



International
Science Council

FALLING WALLS



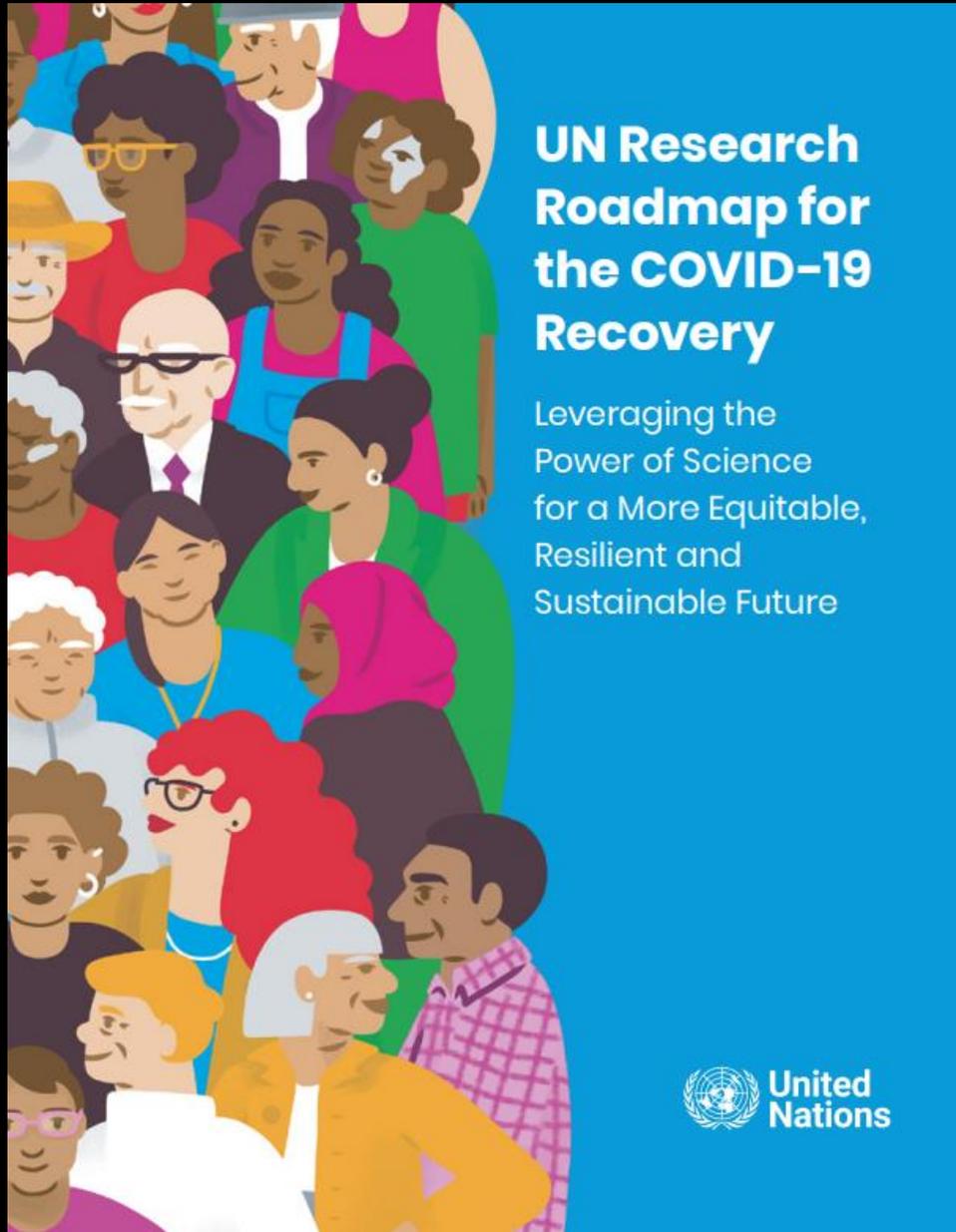
International
Science Council

FALLING WALLS



COVID-19 Response

- COVID-19 scenarios project
- COVID-19 Global Science Portal
- Webinar: The role of science funders in the time of COVID-19
- IIASA-ISC Consultative Science Platform “Bouncing Forward Sustainably - Pathways to a post-COVID World”
- COVID Education Alliance (COVIDEA)
- UN Research Roadmap for COVID-19 Recovery
- Code of conduct for scientists working in emergencies
- Webinar series: Debating disciplinary developments



UN Research Roadmap for the COVID-19 Recovery

Leveraging the Power of Science for a More Equitable, Resilient and Sustainable Future



Transformations within reach:

Pathways to a sustainable and resilient world

SYNTHESIS REPORT



Pathways to a post-COVID World

Drawing on the combined strengths and expertise of the two organizations, this project aims to define and design sustainability pathways that will enable building-back a more sustainable post COVID-19 world.

The IIASA-ISC Consultative Science platform has engaged a unique set of transdisciplinary global thought leaders on four themes:

- Governance for sustainability
- Strengthening science systems
- Resilient food systems
- Sustainable energy

COVID-19 Scenarios Project

Launched in consultation with the WHO and the UNDRR, and lead by a multidisciplinary oversight panel the project will outline a range of scenarios over the mid- and long-term that aim to assist our understanding of the options for achieving an optimistic and fair end to the pandemic.

- The COVID-19 road ahead is long, winding and uncertain
- The pandemic is a long way from being over
- Science has made, and will continue to make, major contributions to the battle
- Decisions by governments and individuals will determine how long it is before any form of normality can be approached
- Any path to the best outcome for all will depend on effective global co-operation
- The ISC announces a COVID-19 Scenarios Project led by an expert panel to map the possible paths ahead, to inform decisions that will influence the outcome of the pandemic



Working Scientist



nature careers

ISC-Nature 'Working Scientist' podcast

The ISC is supporting a series of the Nature 'Working Scientist' podcast dedicated to diversity in science – why it matters, and how to improve it.

- Six-part series
- Exploring diversity in science, asking how to make science genuinely inclusive and to combat discrimination
- Analysing practical steps to improve diversity in science workplaces and ways of working, and how organizations such as the ISC can be 'better allies for better science'.

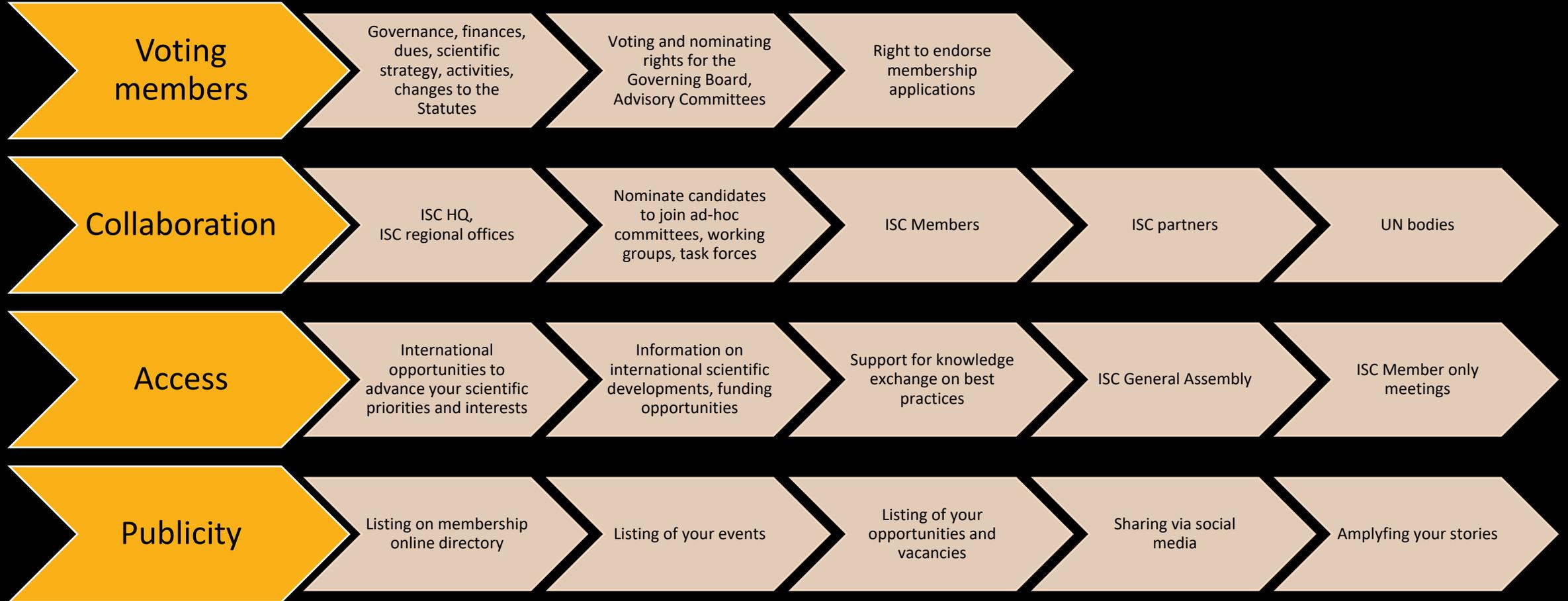
Opportunities

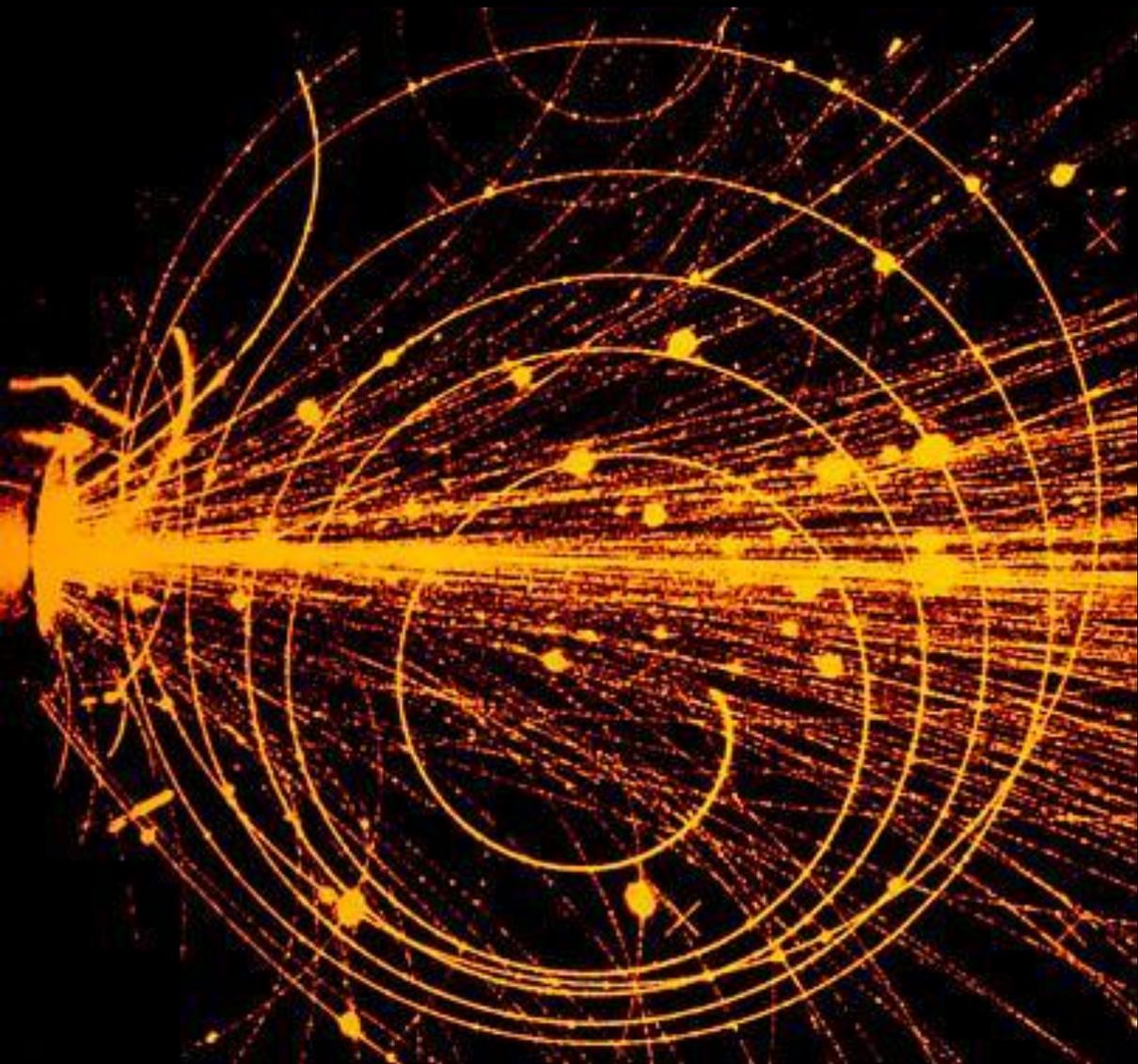


Value of ISC Membership

- Largest international NGO bringing together the **natural** and **social** sciences
- ISC **convenes** the scientific expertise and resources needed to lead on catalysing, incubating and coordinating impactful international action on issues of major scientific and public importance
- Representing the voice of science at the **United Nations**: ISC works at the intersection of science and policy, to ensure that science is integrated into international policy development and that relevant policies take into account both scientific knowledge and the needs of science
- Access to information on international scientific **developments**
- Access to international **opportunities** to advance your scientific priorities and interests
- **Funding** opportunities

Value of ISC Membership





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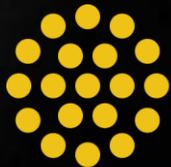
Membership Liaison

- **Liaison Officer**
- **Action Plan**
- **Amplification**
- **Update emails**
- **General Assembly**
- **Notice Board**

Current opportunities for engagement and collaboration

[https://council.science/
members/membership-
notice-board/](https://council.science/members/membership-notice-board/)





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The global voice for science



Thank you

www.council.science